

**D-Pinitol: active natural product from carob with notable insulin regulation****Abdullatif Abed Azab***Carobway LTD, Israel*

D-pinitol is a cyclic polyol, found in several plants, mainly of the Fabaceae family. Carob (*Ceratonia siliqua*) has the highest content of this natural product that has very wide range of biological activities. In terms of chemical structure, it is an ether of D-chiro-inositol, which also has significant pharmacological activities. Antidiabetic activity is among the most notable properties of D-pinitol, and it has been investigated for a few decades, and research is still conducted. In recent years though, there is an increasing interest in two major properties of this compound. First, its potential for treatment of aging and/or neurodegenerative diseases, such as Alzheimer and Parkinson. Second, whether it should be administered as pure compound in medical and food formulation, after isolation from Carob, or it must be part of its "natural habitat", which means part of natural mixture of Carob components. Several recent studies concluded that there is a clear importance of the synergy between natural products found in Carob products. In this context, it is important to emphasize that D-pinitol can be part of first-step isolated or an enriched mixture, that can be obtained by using unique Carob cultivars or by processing of the first-step isolated mixtures. In Carobway LTD we believe that Carob will be one of the future superfoods of humanity. We expect great future for D-pinitol as well as other Carob products.

**Biography**

Abdullatif is an expert in sleep medicine and insulin therapy. He has many research works in Diabetes. He has an experience in Endocrinology and insulin therapy